

Title (en)

Digital radio communication system and method

Title (de)

Digitales Funkübertragungssystem und Verfahren mit adaptiver Modulation

Title (fr)

Système et méthode numérique de radio-transmission avec modulation adaptative

Publication

**EP 2264933 A2 20101222 (EN)**

Application

**EP 10012300 A 20010222**

Priority

- EP 01104308 A 20010222
- JP 2000048856 A 20000225
- JP 2000320627 A 20001020

Abstract (en)

QPSK modulated quadrature baseband signal generating section 301 generates a QPSK modulated quadrature baseband signal. 8PSK modulated quadrature baseband signal generating section 302 generates an 8PSK modulated quadrature baseband signal. Based on the modulation scheme determined information, in-phase component switching section 304 and quadrature component switching section 305 switch between the QPSK modulated quadrature baseband signal, 8PSK modulated quadrature baseband signal and pilot symbol to output to radio section 306. Radio section 306 performs the predetermined radio processing on the baseband signal to output a transmission signal. The transmission signal is amplified in power amplifier 307, and the amplified transmission signal is transmitted from transmission antenna 309. It is thereby possible to take into account both the improvement in the data transmission rate, and the benefit and convenience in terminals.

IPC 8 full level

**H03C 5/00** (2006.01); **H04L 1/00** (2006.01); **H04B 7/26** (2006.01); **H04J 3/00** (2006.01); **H04J 11/00** (2006.01); **H04L 27/18** (2006.01); **H04L 27/26** (2006.01); **H04L 27/34** (2006.01)

CPC (source: EP US)

**H04L 1/0025** (2013.01 - EP US); **H04L 27/26** (2013.01 - EP US); **H04L 27/34** (2013.01 - EP US)

Citation (applicant)

- JP 2000048856 A 20000218 - YUASA BATTERY CO LTD
- JP 2000320627 A 20001124 - DENKI KAGAKU KEIKI KK

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1128586 A2 20010829**; **EP 1128586 A3 20060531**; **EP 1128586 B1 20120822**; CN 100490367 C 20090520; CN 101534286 A 20090916; CN 101534286 B 20111116; CN 1310558 A 20010829; EP 2264933 A2 20101222; EP 2264933 A3 20170517; EP 2264933 B1 20180905; EP 2264934 A2 20101222; EP 2264934 A3 20170517; EP 2264934 B1 20180905; JP 2001313685 A 20011109; JP 4409743 B2 20100203; US 2001017896 A1 20010830; US 6985538 B2 20060110

DOCDB simple family (application)

**EP 01104308 A 20010222**; CN 01104763 A 20010223; CN 200910134774 A 20010223; EP 10012300 A 20010222; EP 10012301 A 20010222; JP 2000320627 A 20001020; US 78962301 A 20010222